correlation at N-sets of the peak positions.; The

OFDM receiver compensates the frequency offset of

the OFDM signal on the basis of the frequency offset estimated by the frequency offset estimate means

OFDM RECEIVER AND ITS FREQUENCY OFFSET COMPENSATION METHOD

Publication number: JP2001036500 (A) Also published as: Publication date: 2001-02-09 JP3486576 (B2) Inventor(s): IMAMURA KIMIHIKO: MATSUSHITA YOSHITERU: TSUBOI EP1179901 (A1) HIDEKAZU: YOSHIMOTO TAKASHI + EP1179901 (B1)
US7149266 (B1) Applicant(s): SHARP KK + (SHARP CORP) Classification: WO0070802 (A1) - international H04J11/00; H04L7/00; H04L27/26; H04J11/00; H04L7/00; H04L27/26; (IPC1-7): H04J11/00; H04L7/00 more >> - European: H04L27/26M5C3 Application number: JP19990248666 19990902 Priority number(s): JP19990248666 19990902; JP19990136639 19990518 Abstract of JP 2001036500 (A) PROBLEM TO BE SOLVED: To provide an OFDM receiver where a frequency offset compensation range can be extended. SOLUTION: The OFDM receiver that receives and demodulates an OFDM signal with a start symbol added thereto prior to a data symbol is provided with a memory means 51 STREET IN 150 that stores N kinds (N is a natural number being 2 or 中 在100日 over) of reference signals equivalent to part in the start symbol, cross- correlation means 52, 53 that calculate a cross-correlation between the OFDM BERR signal and N kinds of the reference signals, a peak N position detection means 54 that detects a peak position of N-sets of the cross-correlation values obtained by the cross-correlation means 52, 53, and a frequency offset estimate means 55 that estimates op-skieg a frequency offset on the basis of the cross-HERes:

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